**NAME: DATE:**

**ECOLOGY EXAM**

**I. Multiple Choice. For each of the questions below, circle the best answer. (2 points each)**

1. In a Food Chain, an insect feeding on grass would be an example of:
2. A Secondary Consumer eating a Primary Consumer
3. A Primary Consumer eating a Producer
4. A Primary Consumer eating a Secondary Producer
5. A Secondary Producer eating a Primary Consumer

1. Which of the following would not be an example of a Decomposer within an Ecosystem?
2. Fungi
3. Worms
4. Virus
5. Bacteria
6. Energy within Ecosystems exit in the form of:
7. Sunlight
8. Evaporation
9. Heat
10. None of the Above
11. An example of a community would be:
12. Species of snakes
13. A group of the same species
14. A pack of wolves amongst a pride of lions
15. Fish in a tank
16. Carnivores and Herbivores are both considered to be:
17. Consumers and Heterotrophs
18. Consumers and Autotrophs
19. Consumers and Omnivores
20. Consumers and Decomposers
21. Biotic and Abiotic factors can be found in a(n):
22. Biosphere
23. Population
24. Ecosystem
25. Both A and C
26. Owl Pellets can include all of the following except:
27. Feathers of an eaten organism
28. Teeth of an eaten organism
29. Bones of an eaten organism
30. All can be included within an Owl Pellet
31. What could be a possible explanation for the Population Density for a population of farmer ants to decrease?
32. Depletion of their surrounding Natural Resources
33. Secondary Consumers in a Food Chain
34. Secondary Producers in a Food Chain
35. More than one of the Above
36. Omnivores can eat:
37. Only Consumers
38. Producers and Consumers
39. Only Autotrophs
40. Only Decomposers
41. Which of the following would be the correct sequence for the Hierarchy of Biological Organization in descending order?
42. Biosphere, Ecosystem, Population, Community, Individual
43. Biosphere, Population, Ecosystem, Community, Individual
44. Biosphere, Ecosystem, Community, Population, Individual
45. Biosphere, Ecosystem, Community, Individual, Population

**II.True or False: For each of the following statements, write True if the statement is correct, or False if the statement is incorrect. (2 points each)**

1. ­­\_\_\_\_\_\_\_\_\_\_\_\_Heterotrophs can also be called Consumers.
2. \_\_\_\_\_\_\_\_\_\_\_\_Non-Living things can be included within a Population.
3. \_\_\_\_\_\_\_\_\_\_\_\_Biotic Factors can be described as living things within an Ecosystem.
4. \_\_\_\_\_\_\_\_\_\_\_\_Decomposers can be classified as Omnivores.
5. \_\_\_\_\_\_\_\_\_\_\_\_Non-Living things can have cells but cannot reproduce.
6. \_\_\_\_\_\_\_\_\_\_\_\_Soil is a Biotic Factor.
7. \_\_\_\_\_\_\_\_\_\_\_\_Omnivores can eat both plants and animals.
8. \_\_\_\_\_\_\_\_\_\_\_\_In a Food Chain, Producers are eaten by Secondary Consumers.
9. \_\_\_\_\_\_\_\_\_\_\_\_Consumers do not obtain their food, but rather naturally produce their own food
10. \_\_\_\_\_\_\_\_\_\_\_\_Other types of birds such as hawks and eagles can produce regurgitated pellets,

just like owls.

**III. Short Answer. Read the following terms and sketch a simple picture to match. Be sure to clearly label and differentiate organisms for full credit! (2 points each)**

21. An Individual

22. A Population

23. A Community

25. Create a sample Food chain with the following organisms. Plant, Grasshopper, Mouse, Owl. Be sure to label all trophic levels. (10 points)

26. Thinking back to the Owl Pellet Laboratory, knowing that other types of birds form pellets just like owls, what would you expect to find in the pellet of a Seagull? (4 Points)